11/23/2015 Step by Step Guide for Exchange Server 2016

MS Messaging Solution



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The following section describes a step-by-step guide for the installation of Microsoft[®] Exchange Server 2016. The installation considers a single server deployment of Exchange Server 2016 with the Mailbox role. Additional details of the topology and architecture of the lab environment which was used in the installation is described here;



1. Operating System Support for Exchange Server 2016

The following operating systems are supported;

Component	Operating System
Mailbox and Edge Server Role	Windows Server 2012 R2 Standard or Datacenter
	Windows Server 2012 Standard or Datacenter
	Windows Server vNext
Management Tools	Windows Server 2012 R2 Standard or Datacenter
	Windows Server 2012 Standard or Datacenter
	64-bit edition of Windows 8.1

2. Active Directory Preparation

The first task in the installation of any version of Exchange is to prepare the Active Directory environment where the Exchange Server will be placed.

However, prior to the preparation, it should be checked against the following Network and Directory Server requirements;

Component	Operating System
Domain controllers	Windows Server 2012 R2 Standard or Datacenter
	Windows Server 2012 R2 Standard or Datacenter
	Windows Server 2008 R2 Standard/Enterprise/Datacenter
	Windows Server 2008 Standard/Enterprise/Datacenter
Active Directory forest	Windows Server 2008 or higher

Once the above requirements are verified for consistency, proceed with the following preparation tasks on the server/computer which will be used to prepare the Active Directory using the Exchange Server 2016 Active Directory Prepare module.

Install Microsoft .Net Framework 4.5

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Open Windows PowerShell and run the following command to install the Remote Tools Administration Pack.

Install-WindowsFeature RSAT-ADDS

P5 C:\`>	Install-Windows	Feature RSAT-AD	DDS	
Success	Restart Needed	Exit Code	Feature Result	
True WARNING automat	No Windows automa ically updated,	Success atic updating is turn on Windows	{Remote Server Administration Tools, Activ s not enabled. To ensure that your newly-installed role or feature is s Update.	

3. Prerequisites for Mailbox Server Role

The following section instructs the prerequisite installation that should be performed in a server running a standalone Exchange 2016 server with the Mailbox Server Role.

Open a Windows PowerShell then Run the following command to install the required Windows components

Install-WindowsFeature AS-HTTP-Activation, Desktop-Experience, NET-Framework-45-Features, RPC-over-HTTPproxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, Web-Mgmt-Console, WAS-Process-Model, Web-Asp-Net45, Web-Basic-Auth, Web-Client-Auth, Web-Digest-Auth, Web-Dir-Browsing, Web-Dyn-Compression, Web-Http-Errors, Web-Http-Logging, Web-Http-Redirect, Web-Http-Tracing, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Lgcy-Mgmt-Console, Web-Metabase, Web-Mgmt-Console, Web-Mgmt-Service, Web-Net-Ext45, Web-Request-Monitor, Web-Server, Web-Stat-Compression, Web-Static-Content, Web-Windows-Auth, Web-WMI, Windows-Identity-Foundation



Install Microsoft Unified Communications Managed API 4.0, Core Runtime 64-bit

Microsoft Unified Cor	Microsoft Unified Communications Managed API 4.0, R 🗕 🗖 🗙						
	Microsoft Unified Communications Managed API 4.0, Runtime Setup						
nified Communications lanaged API 4.0 untime	Microsoft Visual C++ 2012 x64 Minimum Runtime - 11.0.50727 Microsoft Server Speech Platform Runtime (x64) Microsoft Speech Platform VXML Runtime (x64) Microsoft Server Speech Recognition Language - TELE (en- US) Microsoft Server Speech Text to Speech Voice (en-US, Helen) Microsoft Lync Server 2013, Bootstrapper Prerequisites Installer Package Microsoft Unified Communications Managed API 4.0, Runtime						
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These license terms a (or based on where y them. They apply to media on which you n Microsoft	are an agreement between Microsoft Corporation rou live, one of its affliates) and you. Please read the software named above, which includes the received it, if any. The terms also apply to any						
I have read and accep	ot the license terms.						
Yes, send information	about my setup experiences to Microsoft Corporation.						
For more information, rea	ad the <u>Data Collection Policy</u> .						
	Install Cancel						



4. Prepare Active Directory and domains

To prepare the active Directory and the Domains for Exchange 2016, follow the following steps. To execute the commands, the commands should be run using the Schema Admins group and the Enterprise Admins group membership

Extend Active Directory Schema

Mount the Exchange Server 2016 installation Media. Open up a Command Prompt session and navigate to the setup files from the command prompt. Type the following command followed by an Enter

Setup.exe /PrepareSchema /IAcceptExchangeServerLicenseTerms

C:\Exchange 2016>Setup.exe /PrepareSchema /IAcceptExchangeSe	rverLicenseTerms
Welcone to Microsoft Exchange Server 2016 Unattended Setup	
Copying Files File copy complete. Setup will now collect additional information needed for installation.	
Performing Microsoft Exchange Server Prerequisite Check	
Prerequisite Analysis	COMPLETED
Configuring Microsoft Exchange Server	
Extending Active Directory schema	COMPLETED
The Exchange Server setup operation completed successfully.	

Prepare Active Directory

On the command prompt, run the following

Setup.exe /PrepareAD /OrganizationName:oviwin /IAcceptExchangeServerLicenseTerms

G:\Exchange 2016>Setup.exe /PrepareAD /Organiza erverLicenseTerms	tionName∶oviwin ∕IAcceptExchangeS
Welcome to Microsoft Exchange Server 2016 Unatt	ended Setup
Copying Files File copy complete. Setup will now collect additional information n installation.	needed for
Performing Microsoft Exchange Server Prerequisi	te Check
Prerequisite Analysis	100%
Setup will prepare the organization for Exchang /PrepareAD'. No Exchange Server 2013 roles have After this operation, you will not be able to i roles.	e Server 2016 by using 'Setup been detected in this topology. nstall any Exchange Server 2013
For more information, visit: http://technet.mic exch.setupreadiness.NoE15ServerWarning.aspx	rosoft.com/library(EXCHG.160)/ms.
Setup will prepare the organization for Exchang /PrepareAD'. No Exchange Server 2010 roles have After this operation, you will not be able to i	e Server 2016 by using 'Setup been detected in this topology. Install any Exchange Server 2010
For more information, visit: http://technet.nic exch.setupreadiness.NoE14ServerWarning.aspx	rosoft.com/library(EXCHG.160)/ms.
Configuring Microsoft Exchange Server	
Organization Preparation	COMPLETED
The Exchange Server setup operation completed s	uccessfully.

Prepare Domains

On the command prompt, run the following

Setup.exe /PrepareAllDomains /IAcceptExchangeServerLicenseTerms



5. Installing Exchange Server 2016

The below section describes the installation of the Mailbox Server role for Exchange Server 2016.

If you're installing the first Exchange 2016 server in the organization, and the Active Directory preparation steps have not been performed, the account you use must have membership in the Enterprise Administrators group. If you haven't previously prepared the Active Directory Schema, the account must also be a member of the Schema Admins group.

MICROSOFT EXCHANGE SERVER 2016 SETUP

? X



You can have Setup download Exchange Server 2016 updates from the Internet before you install Exchange. If updates are available, they'll be downloaded and used by Setup. By downloading updates now, you'll have the latest security and product updates. If you don't want to check for updates right now, or if you don't have access to the Internet, skip this step. If you skip this step, be sure to download and install any available updates after you've completed Setup.

Select one of the following options:

<u>Connect to the Internet and check for updates</u>

Don't check for updates right now

E Exchange

<u>n</u>ext

MICROSOFT EXCHANGE SERVER 2016 SETUP

? X

Introduction

Welcome to Microsoft Exchange Server 2016!

Exchange Server is designed to help you increase user productivity, keep your data safe, and provide you with the control you need. You can tailor your solution to your unique needs with flexible deployment options, including hybrid deployments that enable you to take advantage of both on-premises and online solutions. You can use compliance management features to protect against the loss of sensitive information and help with internal and regulatory compliance efforts. And, of course, your users will be able to access their email, calendar, and voice mail on virtually any device and from any location. This wizard will guide you through the installation of Exchange Server 2016.

Plan your Exchange Server 2016 deployment:

Read about Exchange Server 2016

Read about supported languages

Use the Exchange Server Deployment Assistant



next

MICROSOFT EXCHANGE SERVER 2016 SETUP

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License Agreement

Please read and accept the Exchange Server 2016 license agreement.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT EXCHANGE SERVER 2016 STANDARD, ENTERPRISE, TRIAL AND HYBRID

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

By using the software, you accept these terms. If you do not accept them, do not use the software. Instead, return it to the retailer for a refund or credit. If you cannot obtain a refund there, contact Microsoft or

I accept the terms in the license agreement

) I do not accept the terms in the license agreement.

E Exchange

next

MICROSOFT EXCHANGE SERVER 2016 SETUP

? X

Recommended Settings

Use recommended settings

Exchange server will automatically check online for solutions when encountering errors and provide usage feedback to Microsoft to help improve future Exchange features.

Don't use recommended settings

Manually configure these settings after installation is complete (see help for more information).

Read more about providing usage feedback to Microsoft Read more about checking for error solutions online

E Exchange

<u>b</u>ack

<u>n</u>ext

MICROSOFT EXCHANGE SERVER 2016 SETUP

? X

Server Role Selection

Select the Exchange server roles you want to install on this computer:



Automatically install Windows Server roles and features that are required to install Exchange Server

E Exchange

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next

MICROSOFT EXCHANGE SERVER 2016 SETUP

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Installation Space and Location

Disk space required:

8696.2 MB

Disk space available: 61337.4 MB

Specify the path for the Exchange Server installation:

D:\Program Files\Microsoft\Exchange Server\V15	browse	

E Exchange

<u>b</u>ack

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M	alware Protection Settings	
Malv turne	are scanning helps protect your messaging environment by detecting messages that may contain viruses or spyware. d off, replaced, or paired with other premium services for layered protection.	t can b
Malv choo	are scanning is enabled by default. However, you can disable it if you're using another product for malware scanning. se to disable malware scanning now, you can enable it at any point after you've installed Exchange.	lf you
Disat	le malware scanning.	
0	<u>Y</u> es	
۲	No	
Inter	net access is required to download the latest anti-malware engine and definition updates.	

MICROSOFT EXCHANGE SERVER 2016 SETUP

Readiness Checks

The computer will be checked to verify that setup can continue.

Prerequisite Analysis

100%

? X

E Exchange

jnstall

MICROSOFT EXCHANGE SERVER 2016 SETUP

Setup Progress

Step 2 of 14: Copy Exchange Files

? X

34%

E Exchange

18

MICROSOFT EXCHANGE SERVER 2016 SETUP

Setup Progress

Step 8 of 14: Mailbox role: Client Access service

? X

74%

E Exchange

MICROSOFT EXCHANGE SERVER 2016 SETUP

? X



Congratulations! Setup has finished successfully. To complete the installation of Exchange Server 2016, reboot the computer.

You can view additional post-installation tasks online by clicking the link: http://go.microsoft.com/fwlink/p/?Linkld=255372. You can also start the Exchange Administration Center after Setup is finished.

Launch Exchange Administration Center after finishing Exchange setup.

E Exchange

finish

6. Configuring the URL for Exchange 2016

When you first install Exchange Server 2016 it is pre-configured with default URLs for the various HTTPS services such as OWA (Outlook on the web), ActiveSync (mobile device access), Exchange Web Services (the API used for a variety of client communications), and others.

The default URLs contain the fully qualified domain name of the server. So for example if your server name is **"exch01.oviwin.com"** then the default URL for OWA will be **"https://exch01.oviwin.com/owa**".

These default URLs allow the services to function but they are not suitable for production deployments for several reasons such as:

- They are difficult for end users to remember (this primarily impacts Outlook on the web, where users tend to find it easier to remember a URL such as "mail.oviwin.com")
- A URL containing a specific server name can't be load-balanced across multiple servers in a high availability deployment
- The internal AD namespace for many organizations is not a valid domain name on the internet, for example **oviwin.local**, which makes it impossible to acquire SSL certificates for Exchange 2016.

The recommended practice is to change the URLs configured on your Exchange 2016 servers to aliases or generic host names such as "**mail.oviwin.com**" after you first install the server.

Get-ClientAccessService -Identity EXCH01 | Select AutodiscoverServiceInternalUrI

Set-ClientAccessService -Identity EXCH01 -AutoDiscoverServiceInternalUri https://mail.oviwin.com/Autodiscover/Autodiscover.xml



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https://mail.oviwin.com/e	cp/VDirMgmt/EditEWSVDir.aspx?pwmcid=8&ReturnObjectTy	pe=1&id	=c60c	
EWS (Default Web Site)			
▶ general	Convert			
authentication	EXCH01			
	Last modified time:			
	11/23/2015 1:41 PM			
	Internal URL:			
	https://mail.oviwin.com/EWS/Exchange.asmx			
	External URL:			
	https://mail.oviwin.com/EWS/Exchange.asmx			
	Enable MRS Proxy endpoint			
	Save	Car	ncel	

😻 Virtual Directory - Mozilla Firefo	Х	_		×
https://mail.oviwin.com/ed	cp/VDirMgmt/EditEASVDir.aspx?pwmcid=11&ReturnObjectT	ype=1&id	l=e2cf	
Microsoft-Server-Active	Sync (Default Web Site)			
▶ general	Server:			
authentication	EXCH01			
	Last modified time:			
	11/23/2015 1:41 PM			
	Internal URL:			
	https://mail.oviwin.com/Microsoft-Server-ActiveSync			
	External URL:			
	nttps://mail.oviwin.com/microsoft-server-Activesync			
	Save	Car	ncel	

😻 Virtual Directory - Mozilla Firefox	-		×
Line https://mail.oviwin.com/ecp/VDirMgmt/EditOABVDir.aspx?pwmcid=14&ReturnObjec	tType=1&i	d=afb	ABP 🔻
OAB (Default Web Site)			
Server:			
EXCH01			
Last modified time:			
11/23/2015 1:42 PM			
Polling interval (minutes):			
480			
Internal URL:			
https://mail.oviwin.com/OAB			
This Internal URL refers to the URL from which Outlook clients inside the corporate network can access this virtual directory.			
External URL:			
https://mail.oviwin.com/OAB			
This External URL refers to the URL from which Outlook clients outside the corporate network can access this virtual directory.			
Save	Car	ncel	

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https://mail.oviwin.com/ed	p/VDirMgmt/EditOWAVDir.aspx?pwmcid=17&ReturnOl	ojectType=1&i	d=ca(
owa (Default Web Site)				
general authentication	Server:			
features	EXCH01 Server version:			
file access	Version 15.1 (Build 225.42) Website:			
	Default Web Site			
	Outlook Web App version: Exchange2013			
	Last modified time: 11/23/2015 1:41 PM			
	Internal URL: https://mail.oviwin.com/owa External URL:			
	https://mail.oviwin.com/owa			
	Save	Can	icel	

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https://mail.oviwin.com/ed	cp/VDirMgmt/EditPowershellVDir.aspx?pwmcid=20&ReturnObje	ectType=1&	j (89) 🔻
PowerShell (Default We	b Site)		
general authentication	Server:		
	Last modified time:		
	11/23/2015 1:42 PM Internal URL:		
	http://mail.oviwin.com/powershell		
	External URL: http://mail.oviwin.com/powershell		
	ļ,		
	Save	Cancel	

Run the following command

iisreset /stop

iisreset /start

[PS] C:\>iisreset /stop	
Attempting stop Internet services successfully stopped [PS] C:\>iisreset /start	
Attempting start Internet services successfully started	

7. Internal DNS Records

🛔 DNS Manager					_ 6	X
File Action View Help						
🗢 🔿 🖄 🗊 🗶 🗈 🖻						
L DNS	Name	Туре	Data	Timestamp		
B B 0C01	🗊 _msdcs					
Forward Lookup Zones	sites					
* msocs.ovwn.com	tcp					
Conditional Forwarders	DomainDnsZones					
E Global Lons	ForestDnsZones					
	(same as parent folder)	Start of Authority (SOA)	[28], dc01.oviwin.com., hos	static		
	same as parent folder)	Name Server (NS)	dc01.aviwin.com.	static		
	(same as parent folder)	Host (A)	192.168.10.101	11/23/2015 9:00:00 AM		
	autodiscover	Host (A)	192.168.10.102	static		
	dc01	Host (A)	192.168.10.101	static		
	exch01	Host (A)	192.168.10.102	11/23/2015 10:00:00 AM		
	mail	Host (A)	192.168.10.102	static		
	2					
	1					

8. Install a Valid SSL Certificate

Exchange Server 2016 communicates with clients, applications and other servers over a variety of network protocols such as HTTPS, SMTP, IMAP and POP. Much of this communication, particularly clients and applications, involves username and password-based authentication. When user credentials are sent over the network they are sent "in the clear", meaning they can potentially be intercepted and read by an attacker. Other information transmitted during the session may also be sensitive and prone to abuse if interception was possible.

To secure these communications Exchange Server 2016 uses SSL certificates to encrypt the network traffic between the server, clients and applications. This includes:

- Outlook connecting to Outlook Anywhere (RPC-over-HTTP) or MAPI-over-HTTP
- Web browsers connecting to Outlook on the web (OWA)
- Mobile devices connecting to ActiveSync to access mailboxes and calendars
- Applications connecting to Exchange Web Services (EWS) for free/busy and other lookups
- Email clients connecting to secure POP or IMAP
- TLS encrypted SMTP between Exchange servers or other email servers

When Exchange Server 2016 is first installed it generates a self-signed SSL certificate that is then enabled for IIS (HTTPS services like OWA, EWS and ActiveSync), SMTP, POP and IMAP. The self-signed certificate allows the server to be "secure by default" and begin encrypting network communications right from the start, but it is only intended to be used temporarily while you provision the correct SSL certificates for your environment.

When deploying Exchange Server 2016 you should plan to replace the self-signed certificate with a valid SSL certificate for your deployment scenario. This involves an investment of anywhere from \$99 to several thousand dollars depending on your Client Access namespace scenario, the type of certificate you purchase, and which certificate authority you purchase it from.

If you're tempted to stick with the self-signed certificate, or to try and disable SSL requirements on Exchange services, I strongly recommend you do not do those things.

- Deliberately trying to reduce the security of your Exchange environment is unwise
- The hours you'll spend configuring and troubleshooting your attempted workarounds is more costly than just buying the correct SSL certificate
- Some stuff just flat out won't work if you try to work around SSL requirements

With the namespaces correctly configured, and DNS records in place, you will then need to provision an SSL certificate for the Exchange 2016 server.

Exchange admin ce	nter			
recipients	servers databases database availa	bility groups virtual directories	certificates	
permissions				
compliance management	Select server: exch01.oviwin.com	~		
organization	+ 🖉 🖮 🤤 …			
protection	NAME	STATUS	EXPIRES ON	
mail flow	Microsoft Exchange Server Auth Certificate Microsoft Exchange	Valid Valid	10/27/2020 11/23/2020	Microsoft Exchange Server Auth Certificate
mobile	WMSVC	Valid	11/20/2025	Self-signed certificate Issuer: CN=Microsoft Exchange Server Auth Certificate
public folders				Status
unified messaging				Valid Expires on: 10/27/2020
servers				Renew
hybrid				Assigned to services SMTP



🥮 Exchange Certificate - Mozilla Firefox	-		×
https://mail.oviwin.com/ecp/CertMgmt/NewCertificate.aspx?pwmcid=3&ReturnObjectTy	pe=1		ABP 🔻
new Exchange certificate			
*Friendly name for this certificate:			
Exchange Certificate			
Back Next	Can	cel	

🕘 Exchange Certificate - Mozilla Firefox	—		×
https://mail.oviwin.com/ecp/CertMgmt/NewCertificate.aspx?pwmcid=3&ReturnObjectT	ype=1		
new Exchange certificate			
Request a wildcard certificate. A wildcard certificate can be used to secure all sub-domains under your root domain with a single certificate. Learn more			
*Root domain:			
Back Next	Can	cel	

😻 Exchange Certificate - Mozilla Firefox					—		×
https://mail.oviwin.com/ecp/CertMgmt/NewCerti	ficate.	aspx?pwmc	id=3&Ret	urnObje	ctType=1		ABP -
new Exchange certificate							
*Store certificate request on this server:							
EXCH01	×	Brov	vse				
		Back	Ne	ĸt	Car	icel	



Exchange Certificate - Mozilla Firefox		×
https://mail.oviwin.com/ecp/CertMgmt/NewCertificate.aspx?pwmcid=4&ReturnObjectType=1		ABP 🔻
new Exchange certificate		
Based on your selections, the following domains will be included in your certificate. You can add additional domains here, or make changes. Learn more		
$+ \checkmark - \checkmark$		
DOMAIN		
mail.oviwin.com		
autodiscover.oviwin.com		
Back Next Cano	el	

😻 Exchange Certificate - Mozilla Firefox 🦳		×
https://mail.oviwin.com/ecp/CertMgmt/NewCertificate.aspx?pwmcid=4&ReturnObjectType=1		ABP 🔻
new Exchange certificate		
Specify information about your organization. This is required by the certification authority.		
*Ornanization name:		
*State/Province:		
DHAKA		
*Country/Region name:		
Bangladesh		
Back Next Can	cel	

😻 Exchange Certificate - Mozilla Firefox		_		×
https://mail.oviwin.com/ecp/CertMgmt/NewCertific	ate.aspx?pwmcid=4&ReturnObj	iectType=1		ABP -
new Exchange certificate				
*Save the certificate request to the following file (example: \\my \mycertrequest.REQ): \\EXCH01\ExchCert\EXCHCERT.REQ	servername\share			
You'll need to submit the contents of the file you entered to a ce	rtification authority.			
After you receive the certificate file from the certification author Complete in the Information pane to install it on your Exchange	ity, you'll need to click server. Learn more			
	Back Finish	Car	ncel	
(*) 3 192.168.10.101/certsrv/	El 🔻 😋 Q. Search	☆ 自 ♥ ↓	∲ ≙ (
G Google 🦲 Sports 🍶 Tools 📮 Social Site 🥃 Bank				
Microsoft Active Directory Certificate Services owwin-UCUT-CA				Home
Use this Web site to request a certificate for your Web browser, e-mail client, or other program. Web, sign and encrypt messages, and, depending upon the type of certificate you request, perf	By using a certificate, you can verify your identity to porm other security tasks.	people you commur	nicate with ov	ver the
You can also use this Web site to download a certificate authority (CA) certificate, certificate cha	in, or certificate revocation list (CRL), or to view the	status of a pending	request.	
For more information about Active Directory Certificate Services, see Active Directory Certificate	Services Documentation.			
Select a task: Request a certificate View the status of a pending certificate request Download a CA certificate, certificate chain, or CRL				
€	C Q Search	☆ 自 ♥ ↓	∲ ≙ 6	
G Google 🦲 Sports 🛄 Tools 🦲 Social Site 🦲 Bank				
Microsoft Active Directory Certificate Services - owwin-DC01-CA				Home
Select the certificate type:				
User Certificate				

€ 3 192.168.10.101/certsrv	/certrqxt.asp		▼ C Q Search		ê 🛡	+	Â	ø	
G Google 🎒 Sports 📑 Tools 🎒 Se	ocial Site 🔒 Bank								
Microsoft Active Directory Certifica	te Services oviwin-DC01-CA								<u>Home</u>
Submit a Certificate Reque	st or Renewal Request								
To submit a saved request to the Saved Request box.	the CA, paste a base-64-encoded CM	C or PKCS #10 certificate reques	t or PKCS #7 renewal re	quest generated by an exter	nal sourc	e (suc	h as a	a Web	server) in
Saved Request:									
Base-64-encoded SuveKrVZCbe certificate request gjvgFXLbCRFX (CMC or iBbXTX1HwE1h PKCS #10 or eBbECC002qc PKCS #7): <	arkuEry1LesAnLari/JuRhms/S+ ~ sp6HEOmdjP/iblX2e+f02ZeEmgPV 6FG/F7S5FOn/y2NHS9Fd7GZzsOFZ pe1r/c1ce#fIL63ARN/4FbK8md F3MSMYCU3t/11CVelof5E2FBLS CERTIFICATE REQUEST	Paste CSR here							
Certificate Template:									
Web Server	~								
Additional Attributes:	ii								
	Submit >								
€ 3 192.168.10.101/certsrv	/certfnsh.asp		▼ C Q Search	\$	ê 🛡	+	Â	ø	. =
G Google 🍶 Sports 📑 Tools 📑 Se	ocial Site 🔒 Bank								
Microsoft Active Directory Certifica	ite Services oviwin-DC01-CA								<u>Home</u>
DER encoded Download certificat Download certificat	or OBase 64 encoded te te chain								
	Opening certnew.cer				Х				
	You have chosen to o certnew.cer which is: cer Fil from: http://19/	pen: e (1.4 KB) 2.168.10.101							
	What should Firefox	do with this file?							
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	OK Cancel						
	OK Cancel						
	OK Cancel						



iisreset /stop

iisreset /start



The common causes of Outlook security alerts containing certificate warnings are misconfigured Exchange server namespaces, and invalid SSL certificates. Using the steps demonstrated above you can reconfigure your namespaces and/or install a valid SSL certificate. When your Exchange server's configuration has been corrected the Outlook security alerts should stop appearing for your end users.

Q,				Services		- 0	x
File Action View	Help						
♦	2 🕞 🛛 📷 🕨 🖬 🕪						
🔍 Services (Local)	Name	Description	Status	Startup Type	Log On As		_
	S Microsoft Exchange Active Directory Topology	Provides Ac	Running	Automatic	Local Syste		
	G Microsoft Exchange Anti-spam Update	The Micros	Running	Automatic	Local Syste		
	🕼 Microsoft Exchange Compliance Audit	The Micros	Running	Automatic	Local Syste		
	Microsoft Exchange Compliance Service	Host for Co	Running	Automatic	Local Syste		
	G Microsoft Exchange DAG Management	The Micros	Running	Automatic	Local Syste		
	C Microsoft Exchange Diagnostics	Agent that	Running	Automatic	Local Syste		
	All Microsoft Exchange EdgeSync	Replicates c	Running	Automatic	Local Syste		
	G Microsoft Exchange Frontend Transport	This service	Running	Automatic	Local Syste		
	G Microsoft Exchange Health Manager	Manages Ex	Running	Automatic	Local Syste		
	Microsoft Exchange IMAP4	Provides Int	Running	Manual	Local Syste		
	Microsoft Exchange IMAP4 Backend	Provides Int	Running	Manual	Network S		
	G Microsoft Exchange Information Store	Manages th	Running	Automatic	Local Syste		
	A Microsoft Exchange Mailbox Assistants	Performs ba	Running	Automatic	Local Syste		
	G Microsoft Exchange Mailbox Replication	Processes	Running	Automatic	Local Syste		
	G Microsoft Exchange Mailbox Transport Delivery	This service,	Running	Automatic	Network S		
	Alicrosoft Exchange Mailbox Transport Submission	This service,	Running	Automatic	Local Syste		
	G Microsoft Exchange Notifications Broker	The Micros	Running	Automatic	Local Syste		
	Microsoft Exchange POP3	Provides Po	Running	Manual	Local Syste		
	Microsoft Exchange POP3 Backend	Provides Po	Running	Manual	Network S		
	A Microsoft Exchange Replication	The Micros	Running	Automatic	Local Syste		
	G Microsoft Exchange RPC Client Access	Manages cli	Running	Automatic	Local Syste		
	A Microsoft Exchange Search	Drives index	Running	Automatic	Local Syste		
	Microsoft Exchange Search Host Controller	This service	Running	Automatic	Local Syste		
	Microsoft Exchange Server Extension for Windows Server Backup	Enables Win	Running	Manual	Local Syste		
	A Microsoft Exchange Service Host	Provides a h	Running	Automatic	Local Syste		
	G Microsoft Exchange Throttling	Limits the r	Running	Automatic	Network S		
	G Microsoft Exchange Transport	The Micros	Running	Automatic	Network S		
	G Microsoft Exchange Transport Log Search	Provides re	Running	Automatic	Local Syste		
	G Microsoft Exchange Unified Messaging	Enables Mic	Running	Automatic	Local Syste		
	G Microsoft Exchange Unified Messaging Call Router	Enables Mic	Running	Automatic	Local Syste		
	Microsoft Filtering Management Service	Manages th	Running	Automatic	Local Syste		
	Extended Standard						-

9. Exchange Service Check

10. Create Mailbox Database

Exchange admin center

recipients	servers databases datab	base availability	groups virtual dir	ectories	certificates	
permissions						
compliance management	+ 🖉 🗘 🖬 🖓 💭					
organization	NAME	ACTIVE ON SERV	SERVERS WITH COPIES	STATUS	BAD COPY COUNT	
protection	Defualt Database	EXCH01	EXCH01	Mounted	0	
mail flow						
mobile						
public folders						
unified messaging						
servers						

🕘 Database - Mozilla Firefox		_		×
https://mail.oviwin.com/ecp/DBMgn	nt/NewDatabase.a	aspx?pwm	cid=5	ABP 🔻
new database				
*Mailbox database				
DB1				
*Server				
EXCH01 × Brows	ie			
Database file path:				
E:\DB1\DB1.edb				
Log folder path:				
F:\DB1LOG				
Mount this database				
-				
	Save	Car	ncel	
l I				

	Warning Please restart the Micros service on server EXCHO	soft Exchange Information Store D1 after adding new mailbox databases.
. Services (Local)	Name	Description Status Startup Type Log On As
	A Message Queuing	Provides a Running Automatic Network S
	Microsoft Account Sign-in Assistant	Enables use Manual (Trig Local Syste
	Microsoft Exchange Active Directory Topology	Service Control
	Microsoft Exchange Anti-spam Update	
	Microsoft Exchange Compliance Audit	Windows is attempting to stop the following service on Local Computer
	Microsoft Exchange Compliance Addit	Microsoft Exchange Information Store
	Microsoft Exchange DAG Management	Microsoft Exchange monimation store
	Microsoft Exchange Diagnostics	
	Microsoft Exchange EdgeSunc	
	Microsoft Exchange Expensed Tenened	
	Microsoft Exchange Health Manager	Close
	Microsoft Exchange IMAP4	Provides Int - Rupping - Mapual - Local Syste
	Microsoft Exchange IMAP4 Backend	Provides Int. Running Manual Network S
	Microsoft Exchange Information Store	Manages the Running Automatic Local System
	Microsoft Exchange Mailbox Assistants	Performs ba Running Automatic Local System
	Microsoft Exchange Mailbox Replication	Processes Running Automatic Local System
	Microsoft Exchange Mailbox Transport Delivery	This service
	Microsoft Exchange Mailbox Transport Submission	This service Running Automatic Local System
	Microsoft Exchange Notifications Broker	The Micros Automatic Local System
	Microsoft Exchange POP3	Provides Po.,, Running Manual Local System
	Microsoft Exchange POP3 Backend	Provides Po Running Manual Network S
	Microsoft Exchange Replication	The Micros Running Automatic Local Syste
	and the second sec	

11. Create User Mailbox

Exchange admin center

recipients	mailboxes groups	resource	es contacts shar	red migration	
permissions					
compliance management	+- ♪ @ ♪ ♡ …				
organization	DISPLAY NAME	*	MAILBOX TYPE	EMAIL ADDRESS	
- genizeten	Administrator		User	Administrator@oviwin.com	
protection					

🥮 User Mailbox - Mozilla Firefox 🦳 🗆	×
https://mail.oviwin.com/ecp/UsersGroups/NewMailboxOnPremises.as	ABP 🔻
new user mailbox	
Alias:	^
Existing user	
Md Shaifullah Mozide F 🗙 Browse	
O New user	
First name:	
Initials:	
Last name:	
*Display name:	
*Name:	
Organizational unit:	
*User logon name:	~
Save Cancel	

12. Test Internal Mail flow



13. Outbound Mail Flow for Exchange Server 2016

Send connectors control outgoing mail flow from your Exchange server. Every organization that needs to send email message to external recipients will need at least one send connector.





Next you'll need to decide how the outbound emails will be delivered. There are two choices – by MX record, or via smart host. MX record delivery involves your Exchange server looking up the MX records of the recipient's domain in DNS, and then connecting directly to their email server via SMTP to deliver the email message. Smart host delivery involves your Exchange server sending the messages to a specified IP address or host name for another system (typically an email security appliance or cloud service) that is then responsible for the further delivery of that email message.



For this example I'm going to use MX records to deliver the message. My server already has outbound firewall access on TCP port 25, and can resolve MX records on the internet using DNS, so at a basic level this should work fine. There are other considerations such as SPF and IP reputation in the real world that may impact the delivery of email messages from your server.

🥮 Send Connector - Mozilla Firefox —		×
https://mail.oviwin.com/ecp/ConnectorMgmt/NewSendConnector.aspx?pwmcid=2&ReturnObject	tTyj	
new send connector		
A send connector can route mail directly through DNS or redirect it to a smart host. Learn more		
*Network settings: Specify how to send mail with this connector. MX record associated with recipient domain O Route mail through smart hosts + \swarrow —		
SMART HOST		
Use the external DNS lookup settings on servers with transport roles		
Back Next Cancel		

Set the address space for the send connector. An address space of **"*"** means **"any domain"** and is suitable if you have one send connector that is used for all outbound mail flow. You can use this address space option if you later need to configure specific send connectors for different domains.

😻 Send Connector - Mozilla Firefox	-		×
https://mail.oviwin.com/ecp/ConnectorMgmt/NewSendConnector.aspx?pwmcid=2&Ret	turnObj	jectTyj	ABP 🔻
new send connector			
A Send connector routes mail to a specified list of domains. These domains can be an SMTP address space or a custom type. Learn more			
*Address space: Specify the address space or spaces to which this connector will route mail.			
TYPE DOMAIN COST			
SMTP * 1			
Scoped send connector			
Back Next	Car	ncel	

Select a Server - Mo:	zilla Firefox		_		×
https://mail.oviv	vin.com /ecp/ConnectorMgmt/S	GerverPicker.aspx?pwmcid=1&L	auncher	=Resu	ABP 🔻
NAME 🔺	SITE	ROLE	VERSION	N	
EXCH01	oviwin.com/Configuration/Sit	Mailbox, ClientAccess	Version	15.1 (Bi	uil
	1 selecte	ed of 1 total			
add ->	EXCH01 [remove];				
		ОК	Car	ncel	

🖲 Send Connecto	r - Mozilla Firefox			_		×
https://mail	oviwin.com/ecp/ConnectorMgmt/N	lewSendConr	ector.aspx?pwmcio	d=2&ReturnObje	ectTyj	ABP 🔻
new send co	onnector					
A send connector Learn more	sends mail from a list of servers with tran	nsport roles or E	dge Subscriptions.			
*Source server: Associate this con add Edge Subscrip	nector with the following servers contain tions to this list.	ing transport ro	oles. You can also			
+ -						
SERVER	SITE		ROLE			
EXCH01	oviwin.com/Configuration/Sites/Defa	ult-First-Sit	Mailbox, Clie			
		Back	Finish	Can	cel	

14. Inbound Mail Flow for Exchange Server 2016

Configuring inbound mail flow for an Exchange Server 2016 environment is reasonably simple, however there are several different parts involved. For your server to receive email from the internet and deliver it to internal recipients there needs to be:

- An Accepted Domain configured for the organization
- An email address assigned to the recipient
- MX records in your public DNS zone
- SMTP connectivity from external senders to your Exchange server, or a mail route that leads to your Exchange server

The Exchange server will accept SMTP connections using a receive connector. A receive connector that is suitable for incoming email from the internet is pre-configured for you by Exchange setup,

so there's no need for you to configure one yourself. The receive connector is named **Default Frontend exch01**.

Exchange Receive Connector - N	Aozilla Firefox —		×
https://mail.oviwin.com/ec	p/ConnectorMgmt/EditReceiveConnector.aspx?pwmcid=4&ReturnObjectTyp	e=1⁣	ABP 🔻
Default Frontend EXCH	21		
general	Specify the security mechanism or mechanisms for incoming		^
 security 	connections.		- 6
scoping	 Transport Layer Security (TLS) Enable domain security (mutual Auth TLS) Basic authentication Offer basic authentication only after starting TLS Integrated Windows authentication Exchange Server authentication Externally secured (for example, with IPsec) Permission groups: Specify who is allowed to connect to this receive connector. Exchange servers Legacy Exchange servers 		
	Partners Exchange users Anonymous users		*
	Save	ancel	

If you look at the properties of that connector you might notice that "Anonymous Users" is enabled as a permission group. Yes this is the correct configuration for the connector, and no that does not mean it can be abused as an open relay.

15. Configuring Accepted Domain

Accepted domains define which domain names your Exchange servers will accept email for. When you install a new Exchange 2016 server the DNS name of the Active Directory forest is automatically added as an accepted domain for the Exchange organization. If your Active Directory forest DNS name happens to match the SMTP domain you plan to use for email, then there's no additional work required here. Similarly, if you're installing Exchange 2016 into an existing Exchange organization, the accepted domains are likely already configured.

You can view your accepted domains in the Exchange Admin Center. Navigate to **mail flow** and then choose **accepted domains**. In my test environment the accepted domain of **oviwin.com** is already present.

recipients rules delivery reports accepted domains email address p	policies receive connec	tors send connectors
permissions		
compliance management + 🖋 🖮 🔑 😅		
organization ACCEPTED DOMAIN	DOMAIN TYPE	
oviwin.com (default domain) oviwin.com	Authoritative	oviwin.com
protection		Fully qualified domain name:
mail flow		oviwin.com Domain type:
mobile		Authoritative
Accepted Domain - Mozilla Firefox		– 🗆 X
https://mail.oviwin.com/ecp/AcceptedDomain/EditAcceptedDomain.a	aspx?pwmcid=4&R	eturnObiectTvr 👜 🔻
oviwin com		
ovimit.com		
Accepted domains are used to define which domains will be accepted for inbound e routing.	email	
*Name:		
oviwin.com	Spec	cify a display name for
Accepted domain:	the a	accepted domain.
oviwin.com		
This accepted domain is:		
Authoritative: Email is delivered only to valid recipients in this Exchange		
organization. All email for unknown recipients is rejected.		
O Internal Relay: Email is delivered to recipients in this Exchange organization or relayed to an email server at another physical or logical location.		
O External Relay: Email is relayed to an email server at another physical or logical location.		
Make this the default domain.		
	Save	Cancel

Exchange admin center

Notice the three options for the type of domain. The explanations are very clear, but to summarize:

- Authoritative a domain for which your servers host the only recipients. For most scenarios this will be the correct choice.
- **Internal relay** a domain for which your servers host some, but not all of the recipients. A typical use case for this type of accepted domain is a shared SMTP namespace, which is often required when two companies are merging or separating.
- External relay a domain for which your server receives email, but hosts none of the recipients.

16. Configuring Email Address Policies

Exchange admin center

recipients	rules delivery reports	accepted domains email	address policies receive of	connectors send connectors
permissions				
compliance management	+ 🖍 🖮 🛧 4 😂			
organization	NAME	PRIORITY	STATUS	
protection	Default Policy	Lowest	Applied	Default Policy
mail flow				Email Address Format
mobile				SMTP Primary: @oviwin.com
public folders				Includes
				All recipient types
unified messaging				This email address policy has been applied.

📵 Email Address Policy - Mozilla Fir	refox	_		×
https://mail.oviwin.com/ecp	/EmailAddressPolicy/EditEmailAddressPolicy.aspx?pwmcid=5&ReturnObjectType=1&priority	=0&id	=219	ABP 🔻
Default Policy general • email address format	*Email address format:			
apply to	TYPE ADDRESS FORMAT			
	SMTP @oviwin.com			
	Save	Can	cel	

